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CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-05-07** **Date: 07-07-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-07-17 |
| **Sample ID No** | : | 2017-07-05-07/01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 06-07-17 |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.35 | _ |
| 2 | Finess by Air permeablity method ($m^2$/kg, Min) | 245.6 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.15 | _ |
| 4 | Standard Consistency (%) | 28.5% | Not specified |
| 5 | Initial Setting time | 145 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 260 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1mm | Not more than 10 mm |

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-05-07** **Date: 03-08-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-07-17 |
| **Sample ID No** | : | 2017-07-05-07/01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 06-07-17 |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 56.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-05-07** **Date: 08-07-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-07-17 |
| **Sample ID No** | : | 2017-07-05-07/02(a) |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 05-07-17 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 265 | 265 | 1.8 | 98.2 | 90-100 |
| 3 | 20 mm | 5862 | 6127 | 40.8 | 59.2 | 30-70 |
| 4 | 10 mm | 4263 | 10390 | 69.3 | 30.7 | 10-35 |
| 5 | 4.75 mm | 4211 | 14601 | 97.3 | 2.7 | 0-5 |
| 6 | Pan | 399 | 15000 | 100.0 | 0 | --- |

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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2017-07-05-07** **Date: 08-07-17**

**Sample ID No** : 2017-07-05-07/02(a)

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.2 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 10.6 | |
| 3 | Specific Gravity | 2.65 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.48 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.52 | – |
| 6 | Water Absorption(%) | 0.21 | – |

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**Quality Manager**


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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-05-07** **Date: 08-07-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-07-17 |
| **Sample ID No** | : | 2017-07-05-07/02(b) |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 05-07-17 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 298 | 298 | 6.0 | 94.0 | 90-100 |
| 3 | 10 mm | 2450 | 2748 | 55.0 | 45.0 | 25-55 |
| 4 | 4.75 mm | 1780 | 4528 | 90.6 | 9.4 | 0-10 |
| 5 | Pan | 472 | 5000 | 100 | 0 | – |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2017-07-05-07** **Date: 08-07-17**

**Sample ID No** : 2017-07-05-07/02(b)

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 12.4 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.6 | |
| 3 | Specific Gravity | 2.69 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.53 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.56 | – |
| 6 | Water Absorption(%) | 0.25 | – |
| 7 | Aggregate crushing Value(%) | 23.4 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 22.8 | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

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**Quality Manager**

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# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-05-07** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 08-07-17** |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-07-17 |
| **Sample ID No** | : | 2017-07-05-07/03 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 05-07-17 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 86 | 86 | 8.6 | 91.4 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 145 | 231 | 23.1 | 76.9 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 155 | 386 | 38.6 | 61.4 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 168 | 554 | 55.4 | 44.6 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 186 | 740 | 74.0 | 26.0 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 182 | 922 | 92.2 | 7.8 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 78 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**

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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2017-07-05-07** **Date: 08-07-17**

**Sample ID No** : 2017-07-05-07/03

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.9 | – |
| 2 | Specific Gravity | 2.59 | – |
| 3 | Material finer than 75 micron(%) | 4.9 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

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**Quality Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2017

| | | |
|---|---|---|
| Lab ID | : | CP-2017-07-15-05 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| Agency | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| Customer's Reference | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 15-07-17 |
| Sample ID No | : | 2017-07-15-05/01 |
| Customer ID | : | M20 Concrete |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 18/07/2017 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete | M20 | 11/07/2017 | 18/07/2017 | 150.33 X 150.54 X 150.45 | 22631 | 8.320 | 373.4 | 16.5 | 16.9 |
| 2 | M20 Concrete | M20 | 11/07/2017 | 18/07/2017 | 150.32 X 150.54 X 150.35 | 22629 | 8.256 | 382.4 | 16.9 | |
| 3 | M20 Concrete | M20 | 11/07/2017 | 18/07/2017 | 150.32 X 150.54 X 150.35 | 22629 | 8.346 | 393.7 | 17.4 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 08/08/2017**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-15-05** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-07-17 |
| **Sample ID No** | : | 2017-07-15-05/02 |
| **Customer ID** | : | M20 Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 08/08/2017 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete | M20 | 11/07/2017 | 08/08/2017 | 150.33 X 150.54 X 150.45 | 22631 | 8.320 | 529.6 | 23.4 | 23.1 |
| 2 | M20 Concrete | M20 | 11/07/2017 | 08/08/2017 | 150.32 X 150.54 X 150.35 | 22629 | 8.256 | 518.2 | 22.9 | |
| 3 | M20 Concrete | M20 | 11/07/2017 | 08/08/2017 | 150.32 X 150.54 X 150.35 | 22629 | 8.346 | 522.7 | 23.1 | |

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# TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-06-07** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 08-07-17** |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-07-17 |
| **Sample ID No** | : | 2017-07-06-07/01 |
| **Sample Type** | : | JSW |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 07-07-17 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | JSW | Fe500 | 8 | 0.392 | 552 | 679 | 20.0% | Satisfactory | Satisfactory |
| 2 | JSW | Fe500 | 10 | 0.612 | 577 | 693 | 20.0% | Satisfactory | Satisfactory |

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# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-07-07** |
| | | **Date: 11-07-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 07-07-17 |
| **Sample ID No** | : | 2017-07-07-07/02 |
| **Sample Type /Size** | : | Precast Cover Slab |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 07/07/2017 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (mm) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.52 | 100.48 | 1.316 | 4478 | 81.9 | 18.3 | 17.0 | 21.3 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.322 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.318 | 4476 | 82.5 | 18.4 | 17.1 | 21.4 |

**Note:**

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**



****End of Report****

AE-03

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

CP/TF/01

# TEST REPORT ON BITUMEN

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-07-15-05** **Date: 18-07-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and Asphalting of Roads and Drains at Attur Layout in Ward No.03 (Balance Roads) |
| **Agency** | : | Technical Manager (west), KRIDL, BBMP, Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/69/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-07-17 |
| **Sample ID No** | : | 2017-07-15-05/01 |
| **Sample Type** | : | Bitumen |
| **Reference to BIS codes** | : | IS: 1201-1220(1978) (Reaffirmed-2004) |
| **Date of test** | : | 17-07-17 |

## Test Results

| Sl.no | Name of Test | Result | Requirements as per IS:73-2013 |
|---|---|---|---|
| 1 | Penetration at 25°C , in 1/10th mm | 64 | 60 to 70 |
| 2 | Softening Point, °C | 55 | Min. 40°C |
| 3 | Ductility, cm | 98 | Min. 75cm |
| 4 | Flash point, °C | 245 | Min. 220°C |
| | Fire point, °C | 272 | |

**Note:**

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**FOR CIVIL Pro.**

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****End of Report****

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